

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: February 24, 2003, 10:13:33 : Search time 763.054 Seconds
(without alignments)
10583.354 Million cell updates/sec

Title: US-09-922-895-3

Perfect score: 3586
Sequence: 1 GCATCCCTACCTTCCCATC.....CTATCAGAGGAGAGTGAA 3586

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 112599159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3586	100.0	5099	18	AAT93601 Human eosinophil e
2	2406	67.1	7201	24	ABL32337 Human immune syst
3	2271.8	63.4	7201	24	ABL32336 Human immune syst
4	344.2	9.6	1915	18	AAT85162 Human chemokine re
5	209	5.8	3660	22	ABA17973 Human nervous syst
6	209	5.8	3662	22	ABA17972 Human nervous syst
7	208.2	5.8	235033	19	AAV57926 Hereditary haemoch
8	206.2	5.8	11901	20	AAK02998 Human IL-1ra BAC c
9	206.2	5.8	42299	22	AAK68932 Human immune/haema

C 10	206	5.7	3417	22	AAH18467 Human cDNA sequenc
C 11	205.4	5.7	1273	22	ABA21094 Human nervous syst
C 12	205	5.7	1376	21	AAK99845 Human secreted pro
C 13	205	5.7	10800	22	AAK83329 Human immune/haema
C 14	205	5.7	29629	24	ABL58699 Human kinase encod
C 15	204.8	5.7	20601	22	AAK79760 Human immune/haema
C 16	204.2	5.7	8676	22	ABA07159 Human pancreatic c
C 17	204.2	5.7	31931	22	ABA07160 Human pancreatic c
C 18	204	5.7	1717	24	ABL67066 Human pancreatic c
C 19	204	5.7	1717	24	AAK25221 Human pancreatic c
C 20	204	5.7	58708	22	AAK64739 Human chemokine (C
C 21	203.8	5.7	2607	22	AAK79848 Human neuroblastom
C 22	203.8	5.7	4258	22	AAK68397 Human immune/haema
C 23	203.8	5.7	23815	22	AAK68678 Human immune/haema
C 24	203.8	5.7	23815	22	AAK85169 Human immune/haema
C 25	203.4	5.7	1739	22	AAK75554 Human immune/haema
C 26	203.4	5.7	1739	22	AAK75555 Human chemokine (C
C 27	203.2	5.7	1717	24	AAK35929 Human chemokine (C
C 28	203	5.7	4862	22	AAK35929 Human chemokine (C
C 29	202.8	5.7	2824	21	AAK59843 Human secreted pro
C 30	202.6	5.6	10012	24	ABL55883 Human small induci
C 31	202.6	5.6	13021	22	AAK16553 Human novel protei
C 32	202.6	5.6	13021	22	AAK35084 Human cDNA sequenc
C 33	202.4	5.6	2345	22	AAH18257 Human immune/haema
C 34	202.4	5.6	3985	22	AAK85378 Human nervous syst
C 35	202.2	5.6	32186	22	ABA21319 Human digestive sy
C 36	202.2	5.6	44848	21	AAK75080 Human digestive sequenc
C 37	202.2	5.6	319608	22	AAK509301 Human schizophre
C 38	202.2	5.6	319608	22	AAH51601 Human chromosome 1
C 39	201.8	5.6	325791	22	AAK34104 Human Oestrogen re
C 40	201.8	5.6	325791	22	AAK74096 Human immune/haema
C 41	201.6	5.6	21777	22	AAK74096 Human immune/haema
C 42	201.6	5.6	54108	24	AAK22782 Human high bone ma
C 43	201.6	5.6	57273	24	AAK22782 Human high bone ma
C 44	201.6	5.6	66933	22	ABA82625 Human HBM gene reg
C 45	201.6	5.6	72049	22	ABA82623 Human HBM gene reg

ALIGNMENTS

RESULT 1	AAAT93601	standard; cDNA; 5099 BP.
ID	AAAT93601	
AC	AAAT93601	
XX		
XX		
DT	07-MAY-1998	(first entry)
DE		
XX		
XX		
KW	Eosinophil ectaxin receptor; CC CKR3; human; treatment: dermatitis; atopic condition; allergic rhinitis; conjunctivitis; bronchial asthma; beta-chemokine receptor; viral infection; ss.	
KW		
XX		
OS	Homo sapiens.	
XX		
FH		
FT	Key	Location/Qualifiers
FT	misc-feature	1..3586
FT		/*tag= a
FT		/note= "5' genomic DNA flanking sequence"
FT	CDS	3587..4654
FT		/*tag= b
FT		/product= "human eosinophil ectaxin receptor"
FT	misc-feature	4655..5099
FT		/*tag= c
FT		/note= "terminator region"
PN	MO9741154-A1.	
XX		
PD	06-NOV-1997.	
XX		
PF	24-APR-1997;	97WO-US06568.

XX 17-JAN-1997; 97GB-0000894.
PR 26-APR-1996; 96US-0016158.
PR 26-APR-1996; 96US-0017113.
XX
XX (MERI) MERCK & CO INC.
PI Daugherty BL, Demartino JA, Siciliano SJ, Springer MS;
XX WPI; 1997-549685/50.
DR P-PSDB; AAW31850.
XX
PT New isolated human eosinophil eotaxin receptor - used to develop
PT products for treating and preventing atopic conditions e.g. allergic
PT rhinitis, dermatitis, conjunctivitis and bronchial asthma
XX
PS Claims 12, 13, 14; Pages 16-20; 51pp; English.
XX
CC This cDNA encodes a human eosinophil eotaxin receptor. This 5099 base
CC pair sequence comprises a 1065 base pair open reading frame encoding a
CC 355 amino acid eosinophil eotaxin receptor protein, flanked by a 5'
CC genomic DNA sequence and a 3' terminator region. This novel eosinophil
CC eotaxin receptor is a human beta-chemokine receptor designated CC CKR3.
CC Agents which bind to this eosinophil eotaxin receptor can be used for
CC the treatment and prevention of atopic conditions such as allergic
CC rhinitis, dermatitis, conjunctivitis and bronchial asthma. Agents which
CC block this eosinophil eotaxin receptor can be used to prevent viral
CC infection in healthy individuals and slow or halt viral progression
CC in infected patients.
XX
SQ Sequence 5099 BP; 1388 A; 1171 C; 1013 G; 1527 T; 0 other:
Query Match 100.0%; Score 3586; DB 18; Length 5099;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3586; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGAATCCCTACTCTCCCATCAGAGCTAGGGGCGATGAGCGCTCTCTGTAAGATGGGGA 60
DB 1 GGAATCCCTACTCTCCCATCAGAGCTAGGGGCGATGAGCGCTCTCTGTAAGATGGGGA 60
QY 61 CCCCCAAGATGTCCTCTGTGGGCGACTTCTTACCAGATGGGAGGGCGGCTT 120
DB 61 CCCCCAAGATGTCCTCTGTGGGCGACTTCTTACCAGATGGGAGGGCGGCTT 120
QY 121 AAGTGTGTGTCAGGCGAAGAAAAGATCTAGTTTGTACTCTTGAGAGTTCTCGGTTT 180
DB 121 AAGTGTGTGTCAGGCGAAGAAAAGATCTAGTTTGTACTCTTGAGAGTTCTCGGTTT 180
QY 181 GTTCATGGCATGGGCGAGGAGTCAAGAGACAGCCTTCCCTCAGTCCCTACAGTGCA 240
DB 181 GTTCATGGCATGGGCGAGGAGTCAAGAGACAGCCTTCCCTCAGTCCCTACAGTGCA 240
QY 241 GGAAGAGTGCATAGCCTGTGGCGCAGGCGCTGTGTGAGGCGCTAGTGGTAACAGA 300
DB 241 GGAAGAGTGCATAGCCTGTGGCGCAGGCGCTGTGTGAGGCGCTAGTGGTAACAGA 300
QY 301 GAGGCGCTCTCAATTCAGCCCAAGAAAGACTAAGATGAATACCTCTGAGTATATTAGC 360
DB 301 GAGGCGCTCTCAATTCAGCCCAAGAAAGACTAAGATGAATACCTCTGAGTATATTAGC 360
QY 361 TACAACCCACAGCAGAGGTTCAGAAAAGGCTCAGCCTGTGGAAACAGGTCCACCCCAC 420
DB 361 TACAACCCACAGCAGAGGTTCAGAAAAGGCTCAGCCTGTGGAAACAGGTCCACCCCAC 420
QY 421 TCAGAGACACACAGTCTATTAATCAAGAGACAAAGAGAGACAGAGACACCCCTTCCA 480
DB 421 TCAGAGACACACAGTCTATTAATCAAGAGACAAAGAGAGACAGAGACACCCCTTCCA 480
QY 481 CTCTGCCCATGTCTCAAGTTGTAAGTGCCTTCTCAGATCTCTGCCACCAATCTTGA 540
DB 481 CTCTGCCCATGTCTCAAGTTGTAAGTGCCTTCTCAGATCTCTGCCACCAATCTTGA 540
QY 541 AAGGAACACTGAAGAAGAAAGTAATTTAAGCTGACAGCATAAAGAGATGAGTAA 600

DB 541 AAGGAACACTGAAGAAGAAAGTAATTTAAGCTGACAGCATAAAGAGATGAGTAA 600
QY 601 ACCTAATCATTTGTTCACATGSAATGAATCAAGAGAAAGTTAAACCACTTGGACTAAA 660
DB 601 ACCTAATCATTTGTTCACATGSAATGAATCAAGAGAAAGTTAAACCACTTGGACTAAA 660
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DB 661 TGTGTGAATCCTTTTCCCTGCTATCCAGCAGATGAGAGCTGGTAAACAGACACAAT 720
QY 721 GTTTGGAGACTAAAGAAATCATTTGACATTTTCTGCTGACTGTGTATGTGAGTAATTTA 780
DB 721 GTTTGGAGACTAAAGAAATCATTTGACATTTTCTGCTGACTGTGTATGTGAGTAATTTA 780
QY 781 GTTGACCTCACTTTGTAATCTTGACACAGGGGCAATCCAAATTCGCAACAAAGATATG 840
DB 781 GTTGACCTCACTTTGTAATCTTGACACAGGGGCAATCCAAATTCGCAACAAAGATATG 840
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DB 1021 ATTGAGACTGGTAGACAGGTGAAACCATATCAGTTTAAATTTTAAATTTTAAAT 1080
QY 1081 ATTTATTTATTTATTTATTTTGTGAGATGAGTGTGCTGTGCCAGCGCTGAGTGCA 1140
DB 1081 ATTTATTTATTTATTTATTTTGTGAGATGAGTGTGCTGTGCCAGCGCTGAGTGCA 1140
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DB 1141 CGGGGTATCACAGTTTACAGCAGCCTCAACCTTCAAGGATTCACCAACCTC 1200
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DB 1201 AGCCCCCAAGTAGTTGGGCGACACAGATGCGCAACATGCTGCTTAATTTCTTATTT 1260
QY 1261 TTTTGTAGATAGATCTACATATATTTGTCAGGCTGTGAATTCCTGGGCTCAG 1320
DB 1261 TTTTGTAGATAGATCTACATATATTTGTCAGGCTGTGAATTCCTGGGCTCAG 1320
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DB 1321 TGAGCCTCCACCTGGGCGTCCCAAGTACTGGGATTTACAGGATGAGCCAGAGTCCCT 1380
QY 1381 GCCCATATGAGATTTTCTGTCTGATCCCATGACCTAGTAAACAGCACTTGGCTGCT 1440
DB 1381 GCCCATATGAGATTTTCTGTCTGATCCCATGACCTAGTAAACAGCACTTGGCTGCT 1440
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DB 1561 TAGAATTAACATGAAATTAAGACACTACCTCAACTGAGCAAACTTAAGTAATTT 1620
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Db 1621 TTTAAAGTTGACCTGTTTAAATCACTCTTGAGAGAAAAAGAAAATAATACAAATA 1680
Qy 1681 TTAACGGTAATAACAGAGCTACTATACCTTTGTTCTGCAGAAATTAGAGCTTGTCTTTT 1740
Db 1681 TTAACGGTAATAACAGAGCTACTATACCTTTGTTCTGCAGAAATTAGAGCTTGTCTTTT 1740
Qy 1741 GTTGCTTAGATGCTGAAAGTGCAGAAAGACACTGTGTGATTTAGCTGTGTACAGACA 1800
Db 1741 CTGTGTTTGAATGCTGAAGTGCAGAAAGACACTGTGTGATTTAGCTGTGTACAGACA 1800
Qy 1801 AATGATATTTTTTTTTTCTCAGCTGCTATGATGATTTGATTTATGATTAATAAGATGC 1860
Db 1801 AATGATATTTTTTTTTTCTCAGCTGCTATGATGATTTGATTTATGATTAATAAGATGC 1860
Qy 1861 TGAATGGAGACACACAAACATTTGTTCTCAGTCACTATTTCTCCCTCAAAAGCGTGA 1920
Db 1861 TGAATGGAGACACACAAACATTTGTTCTCAGTCACTATTTCTCCCTCAAAAGCGTGA 1920
Qy 1921 ATGTGCAATTTGATCAGTGGAGATGTACCTGGACAGACCCATGAAAAGATCAACAGT 1980
Db 1921 ATGTGCAATTTGATCAGTGGAGATGTACCTGGACAGACCCATGAAAAGATCAACAGT 1980
Qy 1981 TCCACCCAAAGGACCCCTATTTTCTCTAATTTGATTTGAATGGCTTTCTATTTGCTTCT 2040
Db 1981 TCCACCCAAAGGACCCCTATTTTCTCTAATTTGATTTGAATGGCTTTCTATTTGCTTCT 2040
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Db 3061 ATGAATGCTCATTTATGAGGCGCTGAGAGACATATTTACTTGTATTTGAATATC 3120
Qy 3121 ATTTATTTATTTATTAACATATTTTGTGCTTTAATGATGATTTTAAAGATATG 3180
Db 3121 ATTTATTTATTTATTTATTAACATATTTTGTGCTTTAATGATGATTTTAAAGATATG 3180
Qy 3181 TAAACTGTAAACATTAATAATGCAAAATGCGTAAAGACAGTAAATTAATGATAT 3240
Db 3181 TAACTGTAAACATTAATAATGCAAAATGCGTAAAGACAGTAAATTAATGATAT 3240
Qy 3241 TATATTTGTTATATATATGAGCTGTTTTTCTGTTGTGTTCTTCTTTAAATGCT 3300
Db 3241 TATATTTGTTATATATATGAGCTGTTTTTCTGTTGTGTTCTTCTTTAAATGCT 3300
Qy 3301 TACAGAAATCTGATCTCCATCTTACACACACCCCAACATTTGCTTTTCCC 3360
Db 3301 TACAGAAATCTGATCTCCATCTTACACACACCCCAACATTTGCTTTTCCC 3360
Qy 3361 ATGCGGTCATCTAATTTGAAGCTTCAGCTTTTCTCTCAATCTTCTCTGCG 3420
Db 3361 ATGCGGTCATCTAATTTGAAGCTTCAGCTTTTCTCTCAATCTTCTCTGCG 3420
Qy 3421 ACCCTGATATGCTTTTGAATTTGATTTGAAGATTTCCCTAGCTATACATGCG 3480
Db 3421 ACCCTGATATGCTTTTGAATTTGATTTGAAGATTTCCCTAGCTATACATGCG 3480
Qy 3481 CATCTTTGTTGATGATCAATTAATCAACCTGCTGTTTACAGAGATGATTTAGCTT 3540
Db 3481 CATCTTTGTTGATGATCAATTAATCAACCTGCTGTTTACAGAGATGATTTAGCTT 3540
Qy 3541 CATTTGGGATTTGATTTTCTTCTTCTATACAGAGGAGAACTGAA 3586
Db 3541 CATTTGGGATTTGATTTTCTTCTTCTATACAGAGGAGAACTGAA 3586

RESULT 2
ABLJ32337/c
ID ABLJ32337 standard: DNA: 7201 BP.
XX ABLJ32337;
AC
XX
XX
DT 26-MAR-2002 (first entry)
XX
XX
DE Human immune system associated gene SEQ ID NO: 310.
XX
XX
KW Human: immune system disease: cytosine methylation; antileukemic;
KW antileukemic; antileukemic; antileukemic; antileukemic;
KW neutrophilic; anti-HIV; antileukemic; antileukemic;
KW antileukemic; antileukemic; antileukemic; antileukemic;
KW antileukemic; cancer; eye disease: arteriosclerosis; anaemia;

KM		acute myeloid leukaemia; Alzheimer's disease; AIDS; epilepsy;
KM		neurofibromatosis; rheumatoid arthritis; psoriasis; bowel disease;
KM		gene; ds.
XX		
OS	Homo sapiens.	
XX		
PN	MO200200928-AZ.	
XX		
PD	03-JAN-2002.	
XX		
PF	02-JUL-2001; 2001WO-EP07537.	
XX		
PR	30-JUN-2000; 2000DE-1032529.	
PR	01-SEP-2000; 2000DE-1043826.	
XX		
PA	(EPIG-) EPIGENOMICS AG.	
PI	Olek A, Piepenbrock C, Berlin K;	
DR	WPI: 2002-130909/17.	
XX		
PT	Nucleic acid comprising fragment of chemically modified gene, useful	
PT	for diagnosis and treatment of diseases associated with abnormal	
PT	cytosine methylation - .	
XX		
PS	Claim 1: SEQ ID NO 310; 32pp + Sequence Listing; German.	
XX		
CC	The present invention provides a number of human immune system associated	
CC	genes which are modified by the methylation of cytosines. The sequences	
CC	can be used in the diagnosis and treatment of immune system disorders,	
CC	including eye diseases such as retinopathy, neovascular glaucoma and	
CC	macular degeneration, arteriosclerosis, anaemia, cancer, acute myeloid	
CC	leukaemia, Alzheimer's disease, AIDS, epilepsy, neurofibromatosis,	
CC	rheumatoid arthritis, psoriasis and inflammatory/ulcerative bowel	
CC	diseases. The present sequence is a gene of the invention.	
XX		
SQ	Sequence 7201 BP; 2131 A; 65 C; 1603 G; 3402 T; 0 other;	
	Query Match 67.1%; Score 2406; DB 24; Length 7201;	
	Best Local Similarity 80.6%; Pred. No. 0;	
	Matches 2889; Conservative 0; Mismatches 685; Indels 12; Gaps	6
QY	3 ATCCCTACTTCCCATTAGAGCTGAGGGGCGATGAGCGCTCTCTCTAAGAATGGGGACC	62
DB	5746 ATCCCTACTTCCCATTAGAGCTGAGGGGCGATGAGCGCTCTCTCTAATAAAACCAACC	5687
QY	63 CCCAAGAGTGTCCTCCGTGGGGCAGCTCTTACAGATGGGATGGCCAGTGGCGTTAA	122
DB	5686 CCCAAAAATATCTCCCTTAT-AAACCTCTCTTACCAAAATTAACCAATTAACAATTA	5628
QY	123 GTTGTGTGCAGGCGAGAAAAAAAAGATCATGTTTGTACTCTTGAGAGTTCTTCGGTTTG	182
DB	5627 ATTAAATTAATCAAAACAAAAAAAATTTATTAATTTATTAATTTATTAATTTATTA	5568
QY	183 TCATGCGATGGCGAGGAGTCAAGAGCGACAGCTTGCTCAGTGCCTTACAGTGCAG	242
DB	5567 TCATTAACATTAACAAAAAATTCAAAAAACAAACCAACTTACTCTCAATCACTAACATTA	5508
QY	243 AAAAGTGATGAGCCGTGGGGCAGGGCCAGGGCCGTGGGAGGCCGTAAGTGTAACAGAG	302
DB	5507 AAAAAATACATTAACCTTAAC--GCCAANAACCTTAATAAAAAAGTAATTAATTAACAAAA	5451
QY	303 GGGCTTCATTCACGCCCAAGGAAGACTAAGATAATTAACCTCAATGAGATATTTAGCTA	362
DB	5450 AAACGTCTCATTCACAAACAAAAAAAACGTAAATAATTAATTAATTAATTAATTA	5391
QY	363 CAACACCAACAGCAGGTTCCAGAAAAAGGCTCAGCGTTGGAAACCAAGTCAACCCCACTC	422
DB	5390 CAACACCAACCAACAAATTTCCAAAAAAAACATCAAGCTTAAAAACCAATCACCCCACTC	5331
QY	423 AGCAGCAGCAGCATATTAATCAAGGACCAACAGSAGACAGGAACACACCCCTTCCACT	482
DB	5330 AACCAACACCAATCATATTAATCAAAAAACCAACAAAAAACAAAAACACCCCTTCCACT	5271

QY	483	CTCCCCATGCTCACAAGTGTGATGAGCCGCTTCCTCCAGATCTCTGCGACACATCTTAGAA	542
Db	5270	CTACCCCATATCTCAAAATTAATAAACCCTCTCCCAAAATCTCTACACACATCTTAAAA	5211
QY	543	GGAACACTGAAAGAAAGAACTGAAATTATAGCTGACACATTAAGAGATGATAAAC	602
Db	5210	AAAAACCTAAAAAAAACCTAAATTTATTAACATACACATAAAAAAAATTAATAAAC	5151
QY	603	CTAAAAATCATGTTCCACATCAATGAATCAAGAGAGTTTAAACCACTTTGGACTPAATG	662
Db	5150	CTAAAAATCATATTCCAATTAATAATTAATCAAAAAAAATTTAAACCACTTTAACTAAA	5091
QY	663	TGTGAATCCTTTTCCGTCATCCAGAGATGGAAGTGGAGTGGTAACGAGACCACTAGT	722
Db	5090	TATAAATCCTTTTCCGTCATCCAGATCCAAATAATTAATAAAGCATATACCAAAACCAATAT	5031
QY	723	TTGAGACTAAAGATATTGCACATTTCCACTGCTGAGTTGATTTGTGATTTAGT	782
Db	5030	TTAAAACTAAAAATCATATTCACATTTCCACTCTCAATTAATTAATAATTTTAT	4971
QY	783	TGACCTCAC-TTTGTAAATCTTGACACGGGGCAATCCAAATCTGCACACAGATATGT	841
Db	4970	TACCTCACCTTTTAAATCTTACACAGC----AACATCCATATCTACACAAAAATATA	4916
QY	842	TAAACAGGGTAATGCGTGATGGAGATGGGATTTGGATTTTACTGTTTGTGCTC	901
Db	4915	TTAAACATATTAATTACTACATAAAAAATTAATATATTTTACTTTTGTATTAATCTC	4856
QY	902	TTCTTCTTATTTGTTCTTACTTATTTACGATTAACCTATCGTTTTCCAAAAATGTAAG	961
Db	4855	TTCTTCTTATTTTCTTACTTATTTACGATTTTACGATTAACCTATCGTTTT-CCAAATATATA	4797
QY	962	GCCATTTTGAAGCCTAATTCACACCTCTCACTATTTTGTATGTAAGATTCACCTTGA	1021
Db	4796	ACCATTTTAAAAAACCTAATTCACACCGCTCACTATTTATATCTPAATATTCACCTTAA	4737
QY	1022	TTGAGACTGGGTAGACAGAGTGAACCATATCAGTTTAAATTTTAAATTTTAAATTA	1081
Db	4736	TTAAACATTAATTAACAAATTAACAAACCATATTAATTTTAAATTTTAAATTAATA	4677
QY	1082	TTTATTTATTTATTTATTTTGTAGATGAGTGTGCTGTGCGCCAGCTGAGTGACGC	1141
Db	4676	TTTATTTATTTATTTATTTTAAAAATTAATTAATTAATTAATTAATTAATTAATTA	4617
QY	1142	GCGCGATCACAGTTCACGTGAGCTCAACCTCTAGCTGCGCAAGGATCTGCCACCTCA	1201
Db	4616	GACGTAATCAAAATCTCACTCAACCTCAACCTTCTAAGCTCAAAAAATTTCTCCACCTCA	4557
QY	1202	GCCCCCAAGTAGTTGGACACACAGATGCGCACCATAGCTGGCTATTTCTTATTTT	1261
Db	4556	AACCCCAATTAATTAACACACAGATATAGCGCACCATATTAATTAATTTCTTATTTT	4497
QY	1262	TTTGTAGATAGATCTCACTATATTTGTCAGCGTGTGTTGAATCTGTGGCTCAGGT	1321
Db	4496	TTTATTAATAATAATTAATCTCACTATATTTATTCACCACTAACTTAATTTCTTAACAT	4437
QY	1322	GAGCTGCCACTGCGGCTGCCAAAGTACAGTGAATTAACGAGATGAGCCACAGTCCCGTG	1381
Db	4436	AAACCTCCACCTAAACCTCCCAAAATTAATAATTAACAAACATTAACCAAAATCCCTTA	4377
QY	1382	CCCATATGAGATTTTGTCTCTGATCCCATGCAAGTAACTCAAGACCTTGGCTGCTG	1441
Db	4376	CCCATATTAATTTTGTATGCTGTAATCCCATACACTAATAATTAACAAACCTTAACACTTA	4317
QY	1442	ACTCTGAGGACCTGCAATGCTTCTTGAGCTGGAACCTTCAAGTCAATTAAGCTCATAGCG	1501
Db	4316	ACTCTAAAAAACCTACACTTCTTAATTAATTAATTAATTAATTAATTAATTAATTAAT	4257
QY	1502	AGCCCTGAACCCAAACCAAAAGGTTGTATGTTTATTCATCCGATCACTGATTAATTTAT	1561
Db	4256	AAACCTTAACCCAAACCAAAATTTCTAATAATTTATCATCCGATCATTAATTAATTTAT	4197

OY	1562	AGAAATTAACACATGAAATTAAGACACTACCCCTCAACCTGAGCAAAACCTTAAGTAATTTT	1621
OY	1562	AGAAATTAACACATGAAATTAAGACACTACCCCTCAACCTGAGCAAAACCTTAAGTAATTTT	1621
Db	4196	AAAAATACACATTAATAAATAAAACACTACCCCTCAACCTAAACAAACCTTAATAATATTTT	4137
OY	1622	TTAAAGTTTGACCGTTTAAATCACTGTGGAGAAAAAGAAATPAATTAACAATAT	1681
Db	4136	TTAAATTTTAACCTATTTTAAATCACTTTAAAAAAAAAAAAAAAAAAAATAATTAACAATAT	4077
OY	1682	TAAAGGTGAATACAGAGCTACTATACCTTTGTCTCAGAAATTAAGCAATTTGTCTGTTC	1741
Db	4076	TAAAGGTGAATACAGAACTACTATACCTTTATCTTATCTCCAAATTAACAAATTTCTATCTTTC	4017
OY	1742	TTGCTTATAGATGCTGAAGTGCAGAGACACTGTGATTTGACGTGTGAATGCAAA	1801
Db	4016	TTACTTAAATACTAATAATCAAAAAACACTATATAATTAACGTATATAACAA	3957
OY	1802	ATGCTATTTTTTTTTCACACTGCTATGAGTTGATATGATATGATATGAAATGCT	1861
Db	3956	ATATATATTTTTTTTTCTCAACTACTATAAATTAATTAACATTAATTAATAATACT	3897
OY	1862	GATGGAGACACACAACCAATTTGTTCCTCAGTCCATTTTCTCTCAAAAGCTGAA	1921
Db	3896	AATTAATAACACACACAACCAATTTATTCCTCAATTCATTTCTCTCTCAAAACCTAAA	3837
OY	1922	TGTGCAATGATCAGTGGAGATGACCTGGACAGACCCATGAAGAGATCAACAAGT	1981
Db	3836	TATACCTTAATCAATTAATAAATAATACCTAAACCAACCATTAATAAATAACAAAT	3777
OY	1982	CCACCCAAGGAGCCCTTTTCTCTAATTTCAATTAATAAGGCTCTAATCTCTCT	2041
Db	3776	CCACCCAAGGAGCCCTTTTCTCTAATTTCAATTAATAAATACTCTAATTAATCTCTCT	3717
OY	2042	TCATTTCTGCTTCCCTACAGTTTAAAGCTTTTTCGTGTTAAATGTAACATCAATC	2101
Db	3716	TCATTTCTGCTTCCCTACAGTTTAAAGCTTTTTCGTGTTAAATGTAACATCAATC	3657
OY	2102	ACTCTCATTTTCTCTATCAACAACCCAGTACCCCAATGCTCTCATCTTGATATAG	2161
Db	3656	ACTCTCATTTTCTCTATCAACAACCCCAATTAACCCCAATTAACCTCTTGATATAG	3597
OY	2162	TAAAGGAGGCTCTCATTAAGGGCTGTCCAGACGAGAGCTGAGAGGCGCTAGACTG	2221
Db	3596	TAAAGGAGGCTCTCATTAAGGGCTGTCCAGACGAGAGCTGAGAGGCGCTAGACTG	3537
OY	2222	GCTCCATTTCCCATCTCATTTCTCAGTACTTTGACTACCAACAACCCCAACTGAGGCG	2281
Db	3536	ACTCATTTTCCCATCTCATTTCTCAGTACTTTGACTACCAACAACCCCAACTGAGGCG	3477
OY	2282	CTCAGTATTTGATCAATTAATCTAATTAAGAGCAAAACAATTTCCCGCATGAGCCGAG	2341
Db	3476	CTCAGTATTTGATCAATTAATCTAATTAAGAGCAAAACAATTTCCCGCATGAGCCGAG	3417
OY	2342	TTATTAAGCATTTCTCAGATTTTACCTTGAGAAATGGCCATGGCGCTATATTCAATCT	2401
Db	3416	TTATTAAGCATTTCTCAGATTTTACCTTGAGAAATGGCCATGGCGCTATATTCAATCT	3357
OY	2402	TCACCTTTGCTCCTTCCCTCCTAGAAAGAGAGTCAAGTTGATGGCCCTGAGAGACTA	2461
Db	3356	TCACCTTTGCTCCTTCCCTCCTAGAAAGAGAGTCAAGTTGATGGCCCTGAGAGACTA	3297
OY	2462	GTCAGTGGCTTAACCTGTCTTCGATGATCTCGCTTATCTGTTTCTAATTTTCTCTCT	2521
Db	3296	ATTAATTAACCTTAACCTATCTTCATCAATCACTCTACCTTATCTAATTTTCTCTCT	3237
OY	2522	TTTCCACCGAAGTCTATATATCTCAAGAAAGCAGGCACTGGCTTAGGCTCTGGCTCTTA	2581
Db	3236	TTTCCACCGAAGTCTATATATCTCAAGAAAGCAGGCACTAACTTAACCTCTAATCTAA	3177
OY	2582	GAAATATCAAGCTCAGAGAGAAATCCCATTTGACTGAGCCCTCTGTGTTACCCCTTTGGA	2641
Db	3176	AAATATCAAAATCCAAATTAATAAATCCCATTTAATCAACCCCTCTACTTACCCCTTTTAA	3117
OY	2642	TGGAGAACCTCCAGGGGTTTGTCTTTTGTGATGTACAGGCGCTAATCTAGCATCACAG	2701

Db	3116	TTAAAAAATCTCCAAAAATTACTTTTACATATTTACCAACCTTAACCTCAACATCACC	3057
Qy	2702	GGCGAAGAAAGAAAGTAACCTAACTAATGCTGCTTTAATTGTAATTTATTTGAATAG	2761
Db	3056	AAACAAAAAATAAATAATTAACCTTAACCTTAACCTTAACCTTAACCTTAACCTTAAC	2997
Qy	2752	TTAATTTACTGTGATTTGACATGTGTAAACAGACAAATGTGTATTTTTTTCACAGCTGCT	2821
Db	2996	TTAATTTACTAATTAATTAACATATATTAACAAACAAATATATATTTTTTTCACAACTACTA	2937
Qy	2822	TGGATTTGATTTATCCCATTTTGGATTAAGAATGCTGTTAAAGACACAAAGCAGGTTCCT	2881
Db	2936	TAAATTAATTAATTTATCCATTTTAAATTAATAATTAATTAATAAATAACCAAAATTCCT	2877
Qy	2882	CAAGTCCTTACCAATTTTTCACAAAGTTAAATTTAAATAATTAATAATTAATAATTAATA	2941
Db	2876	CAATTCCTTAACCAATTTTTCACAAATTTAAATTTAAATAATTAATAATTAATAATTAATA	2817
Qy	2942	ACAGAGAAATGAGATGATAGAGACTAAGAATCTAGCCCAATTTTATATTTACTTGT	3001
Db	2816	ACAAAAAATAAATCAATAAATTAATAAATACTAAATAATTAACCAAAATTTTATATTTACTTAT	2755
Qy	3002	TAGAGATTTTGAACAAATTTCTAATATTTCTTAAGCTTCAATTTCCCATTAACCTATAA	3061
Db	2756	TAAAAAATTTTAAACAAATTAACATAATTTCTTCAAAATTTCAATTTCCCATTAACCTATAA	2697
Qy	3062	TGAATGCTCATCATTTTGGGCGCTGAGAACACATAATTTACTGTGAATTTGTAATATCA	3121
Db	2656	TAAATTAACCTATCTATTTTAAACCCCTTAATAAATAACATAATTTACTTATATTTAATAATCA	2633
Qy	3122	TTGTTATTTATTTATTTATCATATTTTGGCTTTTAAATGATTAAGATTTTAAAGCTATATGT	3181
Db	2636	TTATTTATTTATTTATTTATCATATTTTACTTTTAAATTAATAAATTTTAAATAATATAT	2577
Qy	3182	AAACTGTAAACATAAATATGCAAAATCCGTAAGACAGCTAGTATTAATATCATTTAT	3241
Db	2576	AAACTGTAAACATAAATATGCAAAATCCGTAAGACAAATATTAATTAATTAATTTAT	2517
Qy	3242	ATATTTGTAATCATATATCTAGCGCTTTTTCCTGTTGTAATTTCTCCCTTAATAATGCT	3301
Db	2516	ATATTTATTTATTTATTTATCTAACCTATTTTTCCTATTTTATATTTCTCTTTAAATTTACT	2457
Qy	3302	ACAGAAATCTGTATCCCATTTCTTACACACACACCCACAATTTCTGCTTTTCCCA	3361
Db	2456	TCAAAATCTATATTTCCCATTTCTTACACACACCCACAATTTCTACTTTTCCCA	2397
Qy	3362	TGCGG-GTATGCTTAACCTTGAAGCTTCAGCTTTTCTTCCCTCAATCTTCTCGTGGC	3420
Db	2396	TACCAATCAATCAATCAATTTTAAAACTTCAACCTTTCTTCCCTCAATCTTCTTCTCAAC	2337
Qy	3421	ACCTCTGATGATGCTTTTGAAGATCAATGTAAGAATCCCTAGCTGATATCAACATGCG	3480
Db	2336	ACCTCTATATATCTTTTAAATTTTCAATTTAAATAAATCCCTAAATCTATATCAATATAA	2277
Qy	3481	CATCTTTTGTAGTACATGATTAATCAATCACTGCTGTGTTTACGAAGATGATTTATGCTT	3540
Db	2276	CATCTTTTGTAGTACATGATTAATCAATCACTGATATATTTTACGAAGAAATATTTATTTACTT	2217
Qy	3541	CATTGTGGGATTTGATTTTCTTCTTCAATCAGGAGAGAGTGA	3586
Db	2216	CATTATTAATTAATATATTTTCTTCTTCAATCAGCAAAAAATAATAA	2171
RESULT 3			
ABLJ32336			
ID	ABLJ32336	standard; DNA: 7201 BP.	
XX	AC	ABLJ32336;	
XX	DT	26-MAR-2002 (first entry)	
XX	DE	Human immune system associated gene SEQ ID NO: 309.	

XX Human: immune system disease; cytosine methylation; antiasthmatic;
KM antiarteriosclerotic; antianemic; cytosolic; nootropic;
KM neuroprotective; anti-HIV; anticonvulsant; ophthalmological;
KM antirheumatic; antiarthritic; antidiabetic; antipsoriatic;
KM antinflammatory; cancer; eye disease; arteriosclerosis; anaemia;
KM acute myeloid leukaemia; Alzheimer's disease; AIDS; epilepsy;
KM neurofibromatosis; rheumatoid arthritis; psoriasis; bowel disease;
KM gene; ds.
XX
OS Homo sapiens.
PN WO200200928-A2.
PD 03-JAN-2002.
XX
PF 02-JUL-2001: 2001WO-EP07537.
XX
PR 30-JUN-2000; 2000DE-1032529.
PR 01-SEP-2000; 2000DE-1043826.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K:
DR WPI: 2002-130909/17.
XX
PT Nucleic acid comprising fragment of chemically modified gene, useful
PT for diagnosis and treatment of diseases associated with abnormal
PT cytosine methylation
XX
PS Claim 1: SEQ ID NO 309; 32pp + Sequence Listing; German.
XX
CC The present invention provides a number of human immune system associated
CC genes which are modified by the methylation of cytosines. The sequences
CC can be used in the diagnosis and treatment of immune system disorders,
CC including eye diseases such as retinopathy, neovascular glaucoma and
CC macular degeneration, arteriosclerosis, anaemia, cancer, acute myeloid
CC leukaemia, Alzheimer's disease, AIDS, epilepsy, neurofibromatosis,
CC rheumatoid arthritis, psoriasis and inflammatory/ulcerative bowel
CC diseases. The present sequence is a gene of the invention.
XX
SQ Sequence 7201 BP; 2074 A; 65 C; 1393 G; 3669 T; 0 other;
Query Match 63.4%; Score 2271.8; DB 24; Length 7201;
Best Local Similarity 78.2%; Pred. No. 0;
Matches 2805; Conservative 0; Mismatches 772; Indels 10; Gaps 6;

DB 1810 TATAAATTTATATAGAGTTTATAGAAAAGTTTAGCTTGGAATTTAGCTATTTTAT
1869
QY 421 TCAGCAGACACAGATATATTAATCAAGACCAACAGAGAACACCCCTCCCA
480
DB 1870 TAGTAGAATATAGATATATTAATTAAGATTAATTAAGAAATTTTATTTTATTA
1929
QY 481 CTTGCCCCATGCTCAATGTTAGTGCCCTCCAGATCTCGCCACCATCTTACA
540
DB 1930 TTTTGTATATGTTTAACTGTAGTGTGTTTATTTAGATTTTGTATATTTTACA
1989
QY 541 AAGGAACACTGAAGAAGAACTGAATTTATAGCTGACAGACATAAAGAGATGAGTAA
600
DB 1990 AAGGAATATTTGAAGAAGAAATTTAATTAAGTTAGTATTAAGAAGATGAGTAA
2049
QY 601 ACCTAAATCATTTGTCACATGATTAATCAAGAGAGTTTAACCATCTTGACTAAA
660
DB 2050 ATTTAAATTTATTTGTTTAAATGAATGAATTAAGAAAGTTTAAATTTTGGATTAAA
2109
QY 661 TGTGTAATCTTTTCTGCTATCCAGACATGAGACCTGTTACAGACACCAATA
720
DB 2110 TGTGTAATTTTATTTTGTATTTAGATGAGAAATTTGTAATAGATTTAAATA
2169
QY 721 GTTGGAGACTAAAGAATCATTCACATTTCACTGCTGAGTTGTATTTGAGTAAATTTTA
780
DB 2170 GTTGGAGATTAAGAATATTTGATATTTTATTTGAGTTGATTTGAGATTAATTTTA
2229
QY 781 GTTGACCTACATTTGTAATCTTGACACAGGGCAATCCAAATCTGCACAAGAGATAG
840
DB 2230 GTTGAATTTATTTGTAATTTGTAATTTGTAATTTGTAATTTGTAATTTGTAATTTGTA
2286
QY 841 TTACACAGTGTAAATGCTGCATGAGAGATGGGATTTTACTTGTGTTTGTGCT
900
DB 2287 TTAA-TAGTGTAAATGCTGTATGAGAGATTTGGGATTTTATTTTGTGTTTGTGCT
2345
QY 901 CTTCTTTCTATTTGTTCTTACTATTTTACATTAACCTATGCTTTCCCAATATGAAA
960
DB 2346 TTTTATTTTATTTGTTTATTTATTTATTTACATTAATTTATGCTTTT-TTAAATGTA
2404
QY 961 GGCATTTTGAAGACCTAATTCAAACCTCTGCTATTTTGTATCTAAGATTTACACTTG
1020
DB 2405 GGTATTTTGAAGATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA
2464
QY 1021 ATTGAGACTGGTAGACAGCTGAAACCATATCAGGTTTATTTTAAATTTTAAATTT
1080
DB 2465 ATTGAGATTTGGTAGATAGTGAATAATTTATAGGTTTATTTTAAATTTTAAATTT
2524
QY 1081 ATTTATTTATTTATTTTATTTTGAATGAGTGTGCTGCCCCAGGCTGAGTGCAG
1140
DB 2525 ATTTATTTATTTATTTATTTTGAATGAGTGTGCTGCTGTTAGGTTGAGTGTGAG
2584
QY 1141 CGCGGTGATCAGATTCATCGACGCTCAACCTTCAGGCTCAAGGATTTCCACACC
1200
DB 2585 CGCGGTGATTAAGATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAA
2644
QY 1201 AGCCCCCAAGTAGTGGGACACACAGTATGCGCCACATGCTGGCTATTTCTATTT
1260
DB 2645 AGTTTATTAAGTAGTTGGGATTAATACGTATGCTTATTTATTTTAAATTTTAAATTT
2704
QY 1261 TTTTATGAGATTAAGATTCATATTTTCCAGGCTGCTGTAATTTCCGGCTCAG
1320
DB 2705 TTTTATGAGATTAAGATTTATTTATTTTGAAGTTGTTTGAATTTTGGGTTAG
2764
QY 1321 TGAAGCTCCACCTGGGCTCCCAAGTCTGAGATTAAGGATAGGCAAGTCCCT
1380
DB 2765 TGAAGTTTATTTTGGTGTTTTAAAGTATTTGGGATTAAGGATTAAGTAAAGTTTATTTT
2824
QY 1381 GCCCATATGAGATTTCTGCTCTGATCCCATGACCTGATATCAAGAGATTTGGCTCT
1440
DB 2825 GTTTATATGAGATTTTGTGTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTT
2884
QY 1441 GACTCTGAGAGACCTGATGCTTTCTTGAAGCTGTGAATTTCAAGTGTAAAGCTCATAG
1500

Dd 2885 GATTTTGGAGATTTGTATGTTTTTTTGGATGTCGATTTTGTAGTTTAAAGTTTATAG 2944
Oy 1501 CAGCCCTGAACCCAAACCAAGGTCCTATGCTTATCATCCCTCATGCTGTTTAA 1560
Dd 2945 TAGTTTAAATTTAAATTTAAAGGTTTATGCTTTATTTTTCATTTATGTTGATTTTA 3004
Oy 1561 TAGAATTAACACATGAATTTAAAGACTACCCCTCAACCTGACCAAACTTAAGTATTTT 1620
Dd 3005 TAGAATTAATATGATTAATTAAGATATTTTAAATTTGACATAAATTTTAACTATTTT 3064
Oy 1621 TTTAAAGTTTGAAGCTTTTAAATCACTCTTGAGAAAAGAAATTAATCAATAA 1680
Dd 3065 TTTAAAGTTTGAAGCTTTTAAATTTTGAAGAAAAGAAATTAATTAATTA 3124
Oy 1681 TTAAGGGAATAGAGGCTACATACCTTGTCTCCGAATTTACAGCTGCTGCTTTT 1740
Dd 3125 TTAAGGGAATAGAGGCTATTTATTTTGTGTTTTTGAATTTAGATTTGTTTTTTT 3184
Oy 1741 CTTCCTTTAGATGCTGAAGTGAGAGAGACACTCTGCTGATTTAGCTGTAACTGACA 1800
Dd 3185 TTTGTTTAAAGTGTGAAGTGAGAGAGATTTTGTGATTTAGCTGTGTAATTTGATTA 3244
Oy 1801 AATGCTATTTTTTTTCTCAGCTGTATGATTTGATTAATGCTATTAATTAAGAAATGC 1860
Dd 3245 AATGCTATTTTTTTTCTCAGCTGTATGATTTGATTAATGCTATTAATTAAGAAATGC 3304
Oy 1861 TGATGGAGGACACACAAACCTTGTCTCCAGCTATTTTCCCTCCCAAGGCTGGA 1920
Dd 3305 TGATGGAGGATATATTAATTAATTTGTTTTTGTATTTTATTTTTTTTAAAGTTTGA 3364
Oy 1921 ATGTGCTATTTGATGCTGAGAGATGACCTGACAGACCATGAAGAAAGATCAACAAT 1980
Dd 3365 ATGTGCTATTTGATGCTGAGAGATGATTTTGTATTTATGAAGAAAGATTAATTAAT 3424
Oy 1981 TCCACCCAGGAGACCTTATTTTCTCAATTTGAAATGCTTAAATGCTCTCT 2040
Dd 3425 TTTATTTAAAGGATTTTATTTTTTTTAAATTTTGAATGCTTTTAAATGCTTTT 3484
Oy 2041 TTTATTTCCGCTCTCCACAGTTTAAAGCTTTTCTGCTTCAATGAGAACTACATA 2100
Dd 3485 TTTATTTTCTTTTATTTATTTAGTTTATTAATTTTGTGTTTTTAAATGGAATTTATTA 3544
Oy 2101 CACTGCTATTTTCTCTACACACACCCCAAGTACCCCAATGCTCTCACTTTGATATA 2160
Dd 3545 TATTTTATTTTATTTTATTTATTAATTTTAAAGTATTAATGCTTTTATTTTTCGATATA 3604
Oy 2161 GTAAAGGAGGCTCTGATTAAGGCTTGTCCAAGCAGCAGCTGAGAGCCCTAGACT 2220
Dd 3605 GTAAAGGAGGCTTGTATTAAGGCTTGTAAAGTACCTGAGAGGCTTGAAT 3664
Oy 2221 GGCTCCATTTCCATCTATTTCTCACTGACTGACTACCCAGAAACCCCAATGCGG 2280
Dd 3665 GGTTTATTTTATTTTATTTTATTTATGATTTTGAATTTTAAATTTAAATGCGG 3724
Oy 2281 CCTCAGTATTTGATCAATTTCTATTTAAAGACAAACAAATTTCCCGATTTGGCCCA 2340
Dd 3725 TTTTATGATTTGATTAATTTATTTTAAAGATTAATAATTTTTCGATTTGTTTTTA 3784
Oy 2341 GTTATTAAGCATTTCTCAGATTTACCTTGAGAAATGCCATGCGCTGTATATTCACATC 2400
Dd 3785 GTTATTAAGTATTTTGTATTAAGTATTTTGAAGAAATGTTATGCTTTGATTAATTA 3844
Oy 2401 TTTACCCCTTGTCCCTCCCTCCAGAAAGAAAGTCAAGTGGATGGCCCTCGAGAACT 2460
Dd 3845 TTTATTTTGTGTTTTTTTTTTTGAAGAGAAAGTCAAGTGGATGTTTTTGGAGAAAT 3904
Oy 2461 AGTGCAATGCTTAACGCTCTTCCATGACTCCCTGCTATCTGTTTTCTATTTTCCCTCT 2520
Dd 3905 AGTGATGCTTAAATGTTTTTTTATGATTTTGTATTATTTGTTTTTTTTTTTTT 3964
Oy 2521 TTTTCAACGCAATGTATATCTCAAGAAAGACGACTGGCTTTAGGGCTCTCGGCTTA 2580
Dd 3965 TTTTATCGAAGTTATATTTTAAAGAAAGATGATTTGTTTTAGGGTTTTTGTGTTTA 4024

Oy 2581 AGAATATCAATCCAGTGAGAAATCCATTGACTGACCCCTCTGCTTAACCCCTTGG 2640
Dd 4025 AGAATATTAATTAAGTTAGAGAAATTTTATGATTTGATTTTGTGTTTTTTTTTGTG 4084
Oy 2641 ATGAGAGGCTCCCGAGGCTTTTGTGCTGTTTACAGGCTTAAGTCAAGTACATCACA 2700
Dd 4085 ATGAGAGGTTTTTATGAGGCTTTGTTTTGATGTTATTAAGTTTAAATTTACTATTA 4144
Oy 2701 GGGCAAGAAAGAAAGTAACTTAACCTTAATGCTGCTTATTAATTTATTTATTA 2760
Dd 4145 GGGCAAGAAAGAAAGTAAATTTAAATTAATGTTTATTAATTTATTTATTA 4204
Oy 2761 GTTATTTACTGATTTGATGATGATGATGATGATGATGATGATGATGATGATGAT 2820
Dd 4205 GTTATTTATTTGATTTGATTTATGTTATGTTATGTTATGTTATGTTATGTTAT 4264
Oy 2821 GTGATTTGATTTATGCTATTTGGAATTAAGAAATGCTTAAAGACACAGCAGGTTCC 2880
Dd 4265 GTGATTTGATTTATGTTATTTGGAATTAAGAAATGTTTAAAGATTAATTAAGTTT 4324
Oy 2881 TCAAGTCCGTACCAATTTTCAAAAGTTAAATTTAAATATCACTACATTTGATCTAGT 2940
Dd 4325 TTAAGTCTGCTAATAATTTTAAAGTTAAATTTAAATTTATTAATTTGAAATTTAGT 4384
Oy 2941 GACAGGAAATGAGACATGAGAGACTAAAGATCTAGCCCAATTTTATTTACTTG 3000
Dd 4385 GATPAGAGAAATGATATGATGATGATGATGATGATGATGATGATGATGATGAT 4444
Oy 3001 TTAGAGATTTTGAACAAATTTCTAAATTTCTCAAGGTTCAATTTCCCATTAATTA 3060
Dd 4445 TTAGAGATTTTGAATTAATTTATTAATTTTAAATTTTAAAGTTTAAATTTTAAATTA 4504
Oy 3061 ATGAATGCTCATTTATGAGGCTTGGAGAGACATATTAATTTCTGTAATTTAATATC 3120
Dd 4505 ATGAATGCTTATTTATTAAGGCTTTGGAGAGATTAATTTTGTATTTGATTAATTA 4564
Oy 3121 ATTTATTTATTTATTTATTTATTTTCTTTTAAATGATTAAGATTTTAAAGTATAG 3180
Dd 4565 ATTTATTTATTTATTTATTTATTTTCTTTTAAATGATTAAGATTTTAAAGTATAG 4624
Oy 3181 TTAAGTAAACATTAATAATGCAAAATGCCGTAAAGACATGATTAATTAATGATTA 3240
Dd 4625 TTAATTTGTAATTAATAATGTAATAATGCTAAAGATGATTAATTAATGATTA 4684
Oy 3241 TATATTTGATTAATTAATGCTGCTTTTCTGTTGTTATTTCTCTTTAAATGCT 3300
Dd 4685 TATATTTGATTAATTAATGCTGCTTTTCTGTTGTTATTTCTCTTTAAATGCT 4744
Oy 3301 TACAGAAATCTGATCCCATCTTCCACACACCCACACACATTTCTCTTTCC 3360
Dd 4745 TTTGAAATTTTATTTTATTTTATTTTATTTTATTAATTTTGTGTTTTTTTTTT 4804
Oy 3361 ATG-CCGGTACGTAACCTTTGAAGCTTCACTCTTCTCTCAATCTTCTCTG 3419
Dd 4805 ATGCGGGTATGATTAATTTTGAAGTTTATGTTTTTTTTTTTTTAAATTTTTTTTGG 4864
Oy 3420 CACTCTGATATGCTTTTGAATTCATGTTAAAGATCCCTAGGCTGCTATTCACATCTG 3479
Dd 4865 TATTTTGTATGTTTTTGAATTTATGTTAAAGATTTTAAAGTTTAAATTTATG 4924
Oy 3480 GCAATTTGTTAGTAAATCAATTAATCAATGCTGTTTAAAGAAATGATTAATGCT 3539
Dd 4925 GTATTTTCTTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 4984
Oy 3540 TCAATTTGATTTGATTTTCTCTTCAATCAAGGAGAAATGA 3586
Dd 4985 TTAATTTGATTTGATTTTCTCTTCAATCAAGGAGAAATGA 5031

RESULT 4
AAT85162
ID AAT85162 standard; cdna; 1915 BP.

XX AAT85162;
AC
XX
DT 14-DEC-1997 (first entry)
XX
XX
DE Human chemokine receptor 88-2B cDNA.
XX
XX Chemokine receptor 88-2B; atherosclerosis; rheumatoid arthritis;
KW tumour; asthma; viral infection; AIDS; inflammation;
KW autoimmune disease; therapy; diagnosis; leukocyte trafficking;
KW G protein coupled receptor; human; ss.
XX
OS Homo sapiens.

XX Key Location/Qualifiers
FH CDS 362..1429
FT /tag= a
ET
XX
XX W09722698-A2.
XX
XX 26-JUN-1997.
XX
XX 20-DEC-1996. 96MO-US20759.
XX
XX 07-JUN-1996. 96US-0661393.
XX 20-DEC-1995. 95US-0575967.
XX
XX (ICOS-) ICOS CORP.
XX
XX Gray PW, Raport CJ, Schweickart VL;
PI WPI; 1997-341689/31.
XX P-PSDB; AAW27124.
XX
XX New nucleic acid encoding chemokine receptors 88-2B and 88C - used
PT to modulate leukocyte trafficking, e.g. for treatment of
PT inflammation, tumours, viral infections, autoimmune diseases, etc.
XX
XX
XX Claim 7: Page 48-50; 65pp; English.

XX This sequence comprises a full-length cDNA coding for novel human
XX chemokine receptor 88-2B (AAW27124), a G protein coupled receptor that
XX is involved in leukocyte trafficking. The 88-2B cDNA was obtained
XX from a macrophage cDNA library using 88-2B-specific primers. A
XX full-length clone (see AAT85161) for chemokine receptor 88C (AAW27123)
XX was also obtained. 88C and 88-2B cDNAs can be used to produce
XX recombinant polypeptides in transformed host cells for use in the
XX treatment of e.g. atherosclerosis, rheumatoid arthritis, tumours,
XX asthma, viral infection, AIDS and inflammatory conditions. Nucleic
XX acid fragments can be used to isolate genomic sequences, to detect
XX alleles of the gene (for diagnosis or in gene therapy), to alter
XX receptor genetics to facilitate identification of modulators and to
XX produce knockout animals, and (antisense forms) to alter/study the
XX genetics and expression of the receptor.

XX Sequence 1915 BP; 488 A; 470 C; 373 G; 584 T; 0 other;

XX Query Match 9.6%; Score 344.2; DB 18; Length 1915;

XX Best Local Similarity 98.9%; Pred. No. 4,1e-63;

XX Matches 357; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

QY 3227 AATAAATGATTAATTAATTTGATATCATATCAGCCTGTTTTCTGTTGATATTC 3286
DB 1 AATAAATGATTAATTAATTTGATATCATATCAGCCTGTTTTCTGTTGATATTC 60
QY 3287 TTCCTTAATGTTACAGAAATCTGATCCCATTTCTCACCAACCCACACATTT 3346
DB 61 TTCCTTAATGTTACAGAAATCTGATCCCATTTCTCACCAACCCACACATTT 120
QY 3347 CTCCTCTTTCCATGCC-GGTCATGCTAAGCTTGAAGCTCAGCTCTTCTCCCTC 3405
DB 121 CTCCTCTTTCCATGCCGGGTCATGCTAAGCTTGAAGCTCAGCTCTTCTCCCTC 180

QY 3406 AATCCTTCTCCTGGACACCTCTGATATGCTTTGAAATTCATGTTAAAGATCCCTAGGC 3465
DB 181 AATCCTTCTCCTGGACACCTCTGATATGCTTTGAAATTCATGTTAAAGATCCCTAGGC 240
QY 3466 TGCTATACATGTGCGATCTTTTGTGAGTACATGATTAATCACTGGTGTGTTTACGA 3525
DB 241 TGCTATACATGTGCGATCTTTTGTGAGTACATGATTAATCACTGGTGTGTTTACGA 300
QY 3526 AGGATGATTAATGCTTCATGTTGGATTTATTTCTCTCTATCACAGGAGAAGTGA 3585
DB 301 AGGATGATTAATGCTTCATGTTGGATTTATTTCTCTCTATCACAGGAGAAGTGA 360
QY 3586 A 3586
DB 361 A 361

RESULT 5
ABAI7973/C
ID ABAI7973 standard; DNA; 3660 BP.
XX
XX ABAI7973;
AC
XX 23-JAN-2002 (first entry)
DT
XX
XX Human nervous system related polynucleotide seq ID NO 10304.
DE
XX

KW Human; nootropic; neuroprotective; cytosstatic; dermatological; virucide;
KW immunosuppressive; anti-inflamatory; anti-HIV; antibacterial; vulnerary;
KW antiparkinsonian; antischling; antianaemic; antiarthritic; cancer;
KW antirheumatic; hepatotropic; cerebroprotective; antiinflammatory;
KW antiallergic; antidiabetic; antilucer; anticonvulsant; antifungal;
KW antiparasitic; cardiac; immune disorder; cardiovascular disorder;
KW neurological disease; infection; nephrotropic; gene therapy; vaccine; ds.

XX Homo sapiens.

OS WO200159063-A2.

XX 16-AUG-2001.

PD 17-JAN-2001; 2001WO-US01334.
XX
XX 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 11-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218290.
PR 26-JUL-2000; 2000US-0220963.
PR 26-JUL-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.

Db 3220 TTTTTTTTTTTTTTTTTTTAGAGAGCTCAGCTGCTGCCAGGCTGGAGTGCAGTGG 3161
QY 1144 CGTATCACAGTTTCACTGACGACCTTCACACTTCTAGGCTCAAGGAGATTCTCCACCTGAGC 1203
Db 3160 CGTATCTCGGTCACGACGACCTCCACCTCCAGGTTCAAGGAGATTCTCTGCTGAGC 3101
QY 1204 CCCCCAAGTAGTTGGAGCAGCAGCATGAGCCAGCAGCATGCTGGCTAATTTCTATTATTTT 1263
Db 3100 CTCCCAAGTAGTGGAGCTATGAGCATGAGCTACCATGCCCCGGCTAATTTTATATTTT 3041
QY 1264 TGTAGAGATGAGTTCACATATATGTCAGGCTGCTTGAATCTTGAGTCTGGCTCAGGTGA 1323
Db 3040 AGTAGAGACAGGATTTCACATGTTGGCAGGCTGCTTGAATCTGATTTCAAGTTGA 2981
QY 1324 GCCTCCACCTGGGCTCCCAAGTAGTGGAGTTACAGGCATGAGCCAGGCTCCCTGCC 1383
Db 2980 TGCACCCACCTGGGCTCCCAAGTAGTGGAGTTACAGGCTGAGCATGCTGACCGCC 2921
QY 1384 CATAT 1388
Db 2920 AAAAT 2916

RESULT 6
ABAI7972/C
ID ABAI7972 standard; DNA; 3662 BP.
XX
AC ABAI7972:
XX
DT 23-JAN-2002 (first entry)
XX
DE Human nervous system related polynucleotide SEQ ID NO 10303.
XX
KW Human; nootropic; neuroprotective; cytosolic; dermatological; virologic;
KW immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnery;
KW antiparkinsonian; antistickling; antianemic; antiarthritic; cancer;
KW antineumatic; hepatotropic; cerebroprotective; antiinflammatory;
KW antiallergic; antidiabetic; antilucer; anticonvulsant; antifungal;
KW antiparasitic; cardiant; immune disorder; cardiovascular disorder;
KW neurological disease; infection; nephrotropic; gene therapy; vaccine; ds.
XX
OS Homo sapiens.
XX
PN WO200159063-A2.
XX
PD 16-AUG-2001.
XX
PF 17-JAN-2001; 2001MO-US01334.
XX
PR 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 11-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218290.
PR 26-JUL-2000; 2000US-0220863.
PR 26-JUL-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.

PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226688.
PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229519.
PR 05-SEP-2000; 2000US-0229513.
PR 06-SEP-2000; 2000US-0230437.
PR 06-SEP-2000; 2000US-0230438.
PR 08-SEP-2000; 2000US-0231242.
PR 08-SEP-2000; 2000US-0231243.
PR 08-SEP-2000; 2000US-0231244.
PR 08-SEP-2000; 2000US-0231413.
PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0232080.
PR 12-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0231968.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
PR 14-SEP-2000; 2000US-0232399.
PR 14-SEP-2000; 2000US-0232400.
PR 14-SEP-2000; 2000US-0232401.
PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.
PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234997.
PR 25-SEP-2000; 2000US-0234998.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239335.
PR 13-OCT-2000; 2000US-0239337.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 20-OCT-2000; 2000US-0241826.
PR 20-OCT-2000; 2000US-0242221.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0244674.
PR 08-NOV-2000; 2000US-0246475.
PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
PR 08-NOV-2000; 2000US-0246524.
PR 08-NOV-2000; 2000US-0246525.
PR 08-NOV-2000; 2000US-0246526.

PR	08-NOV-2000	2000US-0246527
PR	08-NOV-2000	2000US-0246528
PR	08-NOV-2000	2000US-0246532
PR	08-NOV-2000	2000US-0246539
PR	08-NOV-2000	2000US-0246609
PR	08-NOV-2000	2000US-0246610
PR	08-NOV-2000	2000US-0246611
PR	08-NOV-2000	2000US-0246613
PR	17-NOV-2000	2000US-0249207
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PR	17-NOV-2000	2000US-0249209
PR	17-NOV-2000	2000US-0249210
PR	17-NOV-2000	2000US-0249211
PR	17-NOV-2000	2000US-0249212
PR	17-NOV-2000	2000US-0249213
PR	17-NOV-2000	2000US-0249214
PR	17-NOV-2000	2000US-0249215
PR	17-NOV-2000	2000US-0249216
PR	17-NOV-2000	2000US-0249217
PR	17-NOV-2000	2000US-0249218
PR	17-NOV-2000	2000US-0249224
PR	17-NOV-2000	2000US-0249245
PR	17-NOV-2000	2000US-0249264
PR	17-NOV-2000	2000US-0249265
PR	17-NOV-2000	2000US-0249297
PR	17-NOV-2000	2000US-0249299
PR	17-NOV-2000	2000US-0249300
PR	01-DEC-2000	2000US-0250391
PR	01-DEC-2000	2000US-0251160
PR	01-DEC-2000	2000US-0251030
PR	05-DEC-2000	2000US-0251988
PR	05-DEC-2000	2000US-0256715
PR	06-DEC-2000	2000US-0251479
PR	08-DEC-2000	2000US-0251856
PR	08-DEC-2000	2000US-0251868
PR	08-DEC-2000	2000US-0251869
PR	08-DEC-2000	2000US-0251989
PR	08-DEC-2000	2000US-0251990
PR	11-DEC-2000	2000US-0254097
PR	05-JAN-2001	2001US-0259678

PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Barash SC, Ruben SM,
XX
DR WPI, 2001-541565/60.

PT Nucleic acids encoding 3224 human nervous system antigen polypeptides,
PT useful for preventing, diagnosing and/or treating nervous system
PT cancers and metastases -

PS Disclosure; SEQ ID NO 10303; 1701pp + Sequence Listing; English.

CC The invention relates to novel genes (ABv11004-ABv21534) and proteins
CC (ABv14678-ABv18001) useful for preventing, treating or ameliorating
CC medical conditions e.g. by protein or gene therapy. The genes are
CC isolated from a range of human tissues disclosed in the specification.
CC The nucleic acids, proteins, antibodies and (anti)agonists are useful
CC in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast
CC and ovarian cancer and other cancers of the adrenal gland, bone, bone
CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital;
CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune
CC haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's
CC disease, multiple sclerosis, rheumatoid arthritis and ulcerative
CC colitis; (c) cardiovascular disorders such as myocardial ischaemias;
CC (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and
CC epilepsy; and (f) infectious diseases such as viral, bacterial, fungal
CC and parasitic infections.
CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at http://wipo.int/publ/published_pcl_sequences.

Query Match	5.88;	Score 209;	DB 22;	Length 3662;
Best Local Similarity	80.3%;	Pred. No. 1.9e-34;		
Matches 245; Conservative	0;	Mismatches 60;	Indels 0;	Gaps
QY 1084 TATTATTATTATTATTATTTTGGAGATGAGCTGCGCTGCGCCAGCGCTGGAGTGCAGCG	1143			
DB 3222 TTTTATTTTTTTTTTTTTTTTTTGGAGAGATCTCACTCTGTGTCACAGCGTGGAGTGCAGTGG	3163			
QY 1144 CGTGATCAGATTCTACTGACGACCTCAACCTTTCTAGGCTCAAGGATTTTCCACCTCAGC	1203			
DB 3162 CGTGATCTCGGCTCAGTACAGCAACCTCCACCTCCAGGTTCAAGGATTTCTCTGCTCAGC	3109			
QY 1204 CCCCCAGTACTGGGACCAACAGTATGGCCACCATGCTGGCTATTATTATTTTTT	1263			
DB 3102 CTCCCAAGTACTGGGACTATAGGCATGGCCCTACCATGGCCCGGCTAAATTTTATTTTTT	3043			
QY 1264 TGTGAGATTAGGATCTCAGTATATTGTCGAGGCTGGTCTTGAATTCCTGGGCTCAGGTA	1323			
DB 3042 AGTAGAGCAGGATTTTACCATGTGTGGCCAGGCTGGTCTTGAATTCCTGATTTTCAAGTGA	2983			
QY 1324 GCTCTCCACCTGGGCGTCCCAAAATCTGGGATTTACAGGCATGAGCAGTCCCTCC	1383			
DB 2982 TGCACCCACCTCGGCGTCCCAAAAGTGTGGATTTACAGGCGTGAAGCATGTGACCGGCC	2922			
QY 1384 CATAT 1388				
DB 2922 AAAAT 2918				

RESULT 7
AAV57926/c
ID AAV57926 standard; DNA; 235033 BP.

AC	AAV57926;
XX	
DT	23-DEC-1998 (first entry)

DE Hereditary haemochromatosis subregion from an unaffected individual.

KM Bovine butyrophilin; BT; human hereditary hemochromatosis; HFE;
 KM diagnosis; Iron metabolism; NPT1; NPT2; RorGt; BTF2; BTF3;
 KM BTF4; BTF5; milk protein; Lupus; Sjogren's syndrome; hypophosphatemia;
 KM type 1 sodium transport gene; ss

OS Homo sapiens.

PN W09814466-A1.

PD 09-APR-1998.
yy

PF 30-SEP-1997; 97WO-0517658.
XX

PR 01-MAY-1997; 9/US-0852495.
 PR 01-OCT-1996: 96JIS-0724394

PA (PROG-) PROGENITOR INC.

PI Feder JN, Kronmal GS, Lauer PM, Ruddy DA, Thomas WJ:

[illegible]

DR WPI; 1998-240014/21.

PT Hereditary haemochromatosis gene products - used to develop products

metabolism

Example 2; Fig 8; 209pp; English.

CC The present invention describes hereditary haemochromatosis gene
CC products from the human haemochromatosis gene. The present sequence
CC represents a hereditary haemochromatosis subregion from an individual
CC unaffected by hereditary haemochromatosis (HH). Also described is a
CC method to determine the presence or absence of the common hereditary

XX	17-JAN-2001:	2001WO-US01354.	PR	29-SEP-2000:	2000US-0236369.
PF			PR	29-SEP-2000:	2000US-0236370.
XX	31-JAN-2000:	2000US-0179065.	PR	02-OCT-2000:	2000US-0236802.
PR	04-FEB-2000:	2000US-0180628.	PR	02-OCT-2000:	2000US-0237037.
PR	24-FEB-2000:	2000US-0184664.	PR	02-OCT-2000:	2000US-0237038.
PR	02-MAR-2000:	2000US-0186350.	PR	02-OCT-2000:	2000US-0237039.
PR	16-MAR-2000:	2000US-0189874.	PR	02-OCT-2000:	2000US-0237040.
PR	17-MAR-2000:	2000US-0190076.	PR	13-OCT-2000:	2000US-0239935.
PR	18-APR-2000:	2000US-0198123.	PR	13-OCT-2000:	2000US-0239937.
PR	19-MAY-2000:	2000US-0205515.	PR	20-OCT-2000:	2000US-0240960.
PR	07-JUN-2000:	2000US-0209467.	PR	20-OCT-2000:	2000US-0241221.
PR	28-JUN-2000:	2000US-0214886.	PR	20-OCT-2000:	2000US-0241785.
PR	30-JUN-2000:	2000US-0215135.	PR	20-OCT-2000:	2000US-0241786.
PR	07-JUL-2000:	2000US-0216647.	PR	20-OCT-2000:	2000US-0241787.
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PR	11-JUL-2000:	2000US-0217487.	PR	20-OCT-2000:	2000US-0241809.
PR	11-JUL-2000:	2000US-0217496.	PR	20-OCT-2000:	2000US-0241826.
PR	14-JUL-2000:	2000US-0218290.	PR	01-NOV-2000:	2000US-0244617.
PR	26-JUL-2000:	2000US-0220963.	PR	08-NOV-2000:	2000US-0246474.
PR	26-JUL-2000:	2000US-0220964.	PR	08-NOV-2000:	2000US-0246475.
PR	14-AUG-2000:	2000US-0224518.	PR	08-NOV-2000:	2000US-0246476.
PR	14-AUG-2000:	2000US-0224519.	PR	08-NOV-2000:	2000US-0246477.
PR	14-AUG-2000:	2000US-0225213.	PR	08-NOV-2000:	2000US-0246478.
PR	14-AUG-2000:	2000US-0225214.	PR	08-NOV-2000:	2000US-0246523.
PR	14-AUG-2000:	2000US-0225266.	PR	08-NOV-2000:	2000US-0246524.
PR	14-AUG-2000:	2000US-0225267.	PR	08-NOV-2000:	2000US-0246525.
PR	14-AUG-2000:	2000US-0225268.	PR	08-NOV-2000:	2000US-0246526.
PR	14-AUG-2000:	2000US-0225270.	PR	08-NOV-2000:	2000US-0246527.
PR	14-AUG-2000:	2000US-0225447.	PR	08-NOV-2000:	2000US-0246528.
PR	14-AUG-2000:	2000US-0225757.	PR	08-NOV-2000:	2000US-0246532.
PR	14-AUG-2000:	2000US-0225758.	PR	08-NOV-2000:	2000US-0246609.
PR	14-AUG-2000:	2000US-0225759.	PR	08-NOV-2000:	2000US-0246610.
PR	18-AUG-2000:	2000US-0226279.	PR	08-NOV-2000:	2000US-0246611.
PR	22-AUG-2000:	2000US-0226681.	PR	08-NOV-2000:	2000US-0246613.
PR	22-AUG-2000:	2000US-0226686.	PR	17-NOV-2000:	2000US-0249207.
PR	22-AUG-2000:	2000US-0227182.	PR	17-NOV-2000:	2000US-0249208.
PR	23-AUG-2000:	2000US-0227009.	PR	17-NOV-2000:	2000US-0249209.
PR	30-AUG-2000:	2000US-0228924.	PR	17-NOV-2000:	2000US-0249210.
PR	01-SEP-2000:	2000US-0229287.	PR	17-NOV-2000:	2000US-0249211.
PR	01-SEP-2000:	2000US-0229343.	PR	17-NOV-2000:	2000US-0249212.
PR	01-SEP-2000:	2000US-0229344.	PR	17-NOV-2000:	2000US-0249213.
PR	01-SEP-2000:	2000US-0229345.	PR	17-NOV-2000:	2000US-0249214.
PR	05-SEP-2000:	2000US-0229509.	PR	17-NOV-2000:	2000US-0249215.
PR	05-SEP-2000:	2000US-0229513.	PR	17-NOV-2000:	2000US-0249216.
PR	06-SEP-2000:	2000US-0230437.	PR	17-NOV-2000:	2000US-0249217.
PR	06-SEP-2000:	2000US-0230438.	PR	17-NOV-2000:	2000US-0249218.
PR	08-SEP-2000:	2000US-0231242.	PR	17-NOV-2000:	2000US-0249244.
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			PA	(HUMA-)	HUMAN GENOME SCI INC.
			XX		
			PI	Rosen CA,	Barash SC, Ruben SM;
			XX		
			DR	WPI;	2001-483426/52.
			XX		

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 KW immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerrary;
 KW antiparinsonian; antistickling; antihaemic; antiarthritic; cancer;
 KW antirheumatic; hepatocytic; cerebroprotective; antilinfammatory;
 KW antiallergic; antidiabetic; antilucer; anticonvulsant; antifungal;
 KW antiparasitic; cardiant; immune disorder; cardiovascular disorder;
 KW neurological disease; infection; nephrotropic; gene therapy; vaccine; ds.
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 PN WO200159063-A2.
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 PR 17-NOV-2000; 2000US-0249244.

CC fungi and ocular disorders e.g. corneal infection. The proteins can also
CC be used to aid wound healing and epithelial cell proliferation, to
CC prevent skin aging due to sunburn, to maintain organs before
CC transplantation, for supporting cell culture of primary tissues, to
CC regenerate tissues and in chemotaxis. The proteins can also be used as a
CC food additive or preservative to increase or decrease storage
CC capabilities. AAC99809 to AAC99817 and AAB56076 represent sequences used
CC in the exemplification of the present invention.

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Matches 250	Conservative	0	Mismatches 75	Indels 0
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Db	1207	CTCTGCTCTACGCTCCCGAGTAGTTGGGATTAACAGGTGTCTGCCACACGCCCGGTAC	1148
Oy	1251	TTTTCTATTTTTTTTGTAGAGATATAGATCTCACATAATTGTCCAGGCTGTGTGAATTC	1310
Db	1147	TTTTTTATTTTTTTAGTAGAGACAGGGTTTTCGCCATGTGTGTGTCAGGCTGTGTGAACCTC	1088
Oy	1311	TGGGCTCAGGTGAGCCTCCACACCTGGGCTCCCAAAGTACTGGGATTACAGCATGAGCC	1370
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KW	Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;	
KV	cytostatic; gene therapy; vaccine; metastasis; ds.	
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XX	(HUMA-) HUMAN GENOME SCI INC.	
XX	Rosen CA, Barash SC, Ruben SM;	
XX	WPI; 2001-483426/52.	
DR	Nucleic acids encoding human immune/hematopoietic antigen polypeptides,	
XX	useful for preventing, diagnosing and/or treating cancers and	
PT	metastasis -	
XX	Disclosure; SEQ ID NO 38141; 3071pp + Sequence Listing; English.	
PS	AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)	
CC	amino acid sequences given in AAM82170 to AMM91921. (I) have cytoskeletal	
CC	activity, and can be used in gene therapy and vaccine production. (I)	
CC	proteins and polynucleotides may be used in the prevention, diagnosis	
CC	treatment of diseases associated with inappropriate (I) expression. For	
CC	example, they may be used to treat disorders associated with decreased	
CC	expression by rectifying mutations or deletions in a patient's genome	
CC	that affect the activity of (I) by expressing inactive proteins or to	
CC	suppress the patients own production of (I). Additionally, (I)	

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PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX
PI Rosen CA, Barash SC, Ruben SM:
XX
XX WPI: 2001-483426/52.
DR
XX
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and
XX metastasis -
XX
PS Disclosure: SEQ ID NO 34572; 3071bp + Sequence Listing; English.
XX
XX AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC treatments and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patient's own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting
CC the nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent,
CC diagnose and treat immune/hematopoietic-related diseases, especially
CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703
CC to AAK87594 represent human immune/hematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
CC represent sequences used in the exemplification of the present invention.
XX
XX Sequence 206501 BP: 5874 A: 4297 C: 4363 G: 6067 T: 0 other:

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